

At this point they are given an entry ticket that contains the necessary access codes to download individually licensed media from a server. Content or merchandise created using the RPOS can then be resold on the Internet and the tracking system will remain intact.

5. The following text to be deleted at deletion label {5}

Trained Internet professionals may not be able to grasp the concept of retail point of sale immediately or understand its usefulness, they have been conditioned towards more complicated means of accomplishing the tasks directly on the Internet.

REMARKS ON AMENDMENTS TO THE ABSTRACT

The abstract should succinctly describe the invention that is more definitively described in the specification. While numerous mentions of content based serialization (content fingerprinting) were discussed in the description and claims portion of the specification, they were not explained in the abstract portion of the specification.

Number 1 describes the industry environment of RPOS system and introduces no new matter to the claimed invention.

Number 2 introduces the concept of content fingerprinting

Number 3 deletes an extraneous word

Number 4 takes into account that no manufacturing processes for CDs or other recorded media are a part of the claimed invention, thus requiring the sentences to be rewritten. Also, the "unique, non-audible or invisible code signal sequence" which is more succinctly referred to as "content serialization" in the resulting abstract, allowed editing it out.

Number 5 was edited out of the abstract lest one might think that one reasonably skilled in the art would still not be able to understand the usefulness of RPOS.

AMENDMENTS TO THE DESCRIPTION

6. Replace the following text label (6)

BACKGROUND

with,

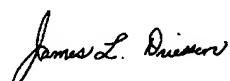
DESCRIPTION

7. Numbering system label {7} and subsequent numbering system deleted.

8. Replace the following text at label (8)

requires
with,
utilizes

9. Replace the following text at label (9)



in this case
with,
used in RPOS

10. The following text to be inserted at insertion label [10]

, CGI, ASP

11. Replace the following text at label (11)

Using the Web's Hyper Text Transfer Protocol (HTTP),
with,

In the past, there have been other Retail Point of Sale inventions that employ computer networks to deliver the authorization for the manufacture of media goods, but this RPOS system does not manufacture anything, it merely provides a prepaid entry ticket and tracing authority that gives the end user the permission to own the merchandise.

When the time comes time for the end-user to obtain the merchandise using the RPOS,

12. Replace the following text at label (12)

has no memory of what pages it has sent to a user previously or anything about previous visits. A cookie is a mechanism that allows the server to store its own information about a user on the user's own computer. For example, the Internet Explorer browser stores cookies in a Windows subdirectory. Netscape stores cookies as a single text file.

with,

requires no additional input memory of the download transaction because all of that has taken place previously. The server does not need to know what pages it has sent to a user previously or anything about previous visits. No cookies are required to store its own information about a user on the user's own computer. For example, the Internet Explorer browser stores cookies in a Windows subdirectory. Netscape stores cookies as a single text file. RPOS does not require such a cookie system, but cookies may be used for other non-transactional features only if desired.

13. The following text to be deleted at deletion label {13}

The U.S. Patent and Trademark Commissioner announced that the Agency would be revamping its patent examination guidelines for computer-related inventions and e-commerce practices, see United States Patent and Trademark Office RIN 065 I-AB20.

James L. Dineen

14. The following text to be deleted at deletion label {14}

There are three key questions to be asked when attempting to differentiate the technology:

- i. Do they take cash?
- ii. Is there an establishment that acts on behalf of the customer for payment that employs nonvirtual (Ret" point of sale) to complete the transaction?
- iii. Does the customer have to physically go to the establishment to buy it?

15. The following text to be deleted at deletion label {15}

USPTO

16. The following text to be inserted at insertion label [16]

This invention is not a means to provide for manufacture of a material object at the location of purchase, see U.S. patent 4,528,643. The end-user (customer) has the choice of how to create the material object. RPOS merely provides the entry ticket for the customer to obtain the merchandise or media at their own leisure in the format of their choosing.

17. The following text to be deleted at deletion label {17}

BRIEF DESCRIPTION OF THE INVENTION

18. The following text to be inserted at insertion label [18]

Once media has been delivered and cataloged, further transfers may take place on the Internet using traditional Internet transactions, but the individual serialization of the RPOS transactions remains intact. The method of individual serialization is achieved through content-based identification and can be used for later RPOS transactions or any other subsequent Internet transaction.

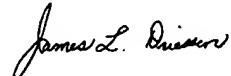
19. Replace the following text at label (19)

DESCRIPTION OF INVENTION

with,

Detailed Description

20. Replace the following text at label (20)



. The content itself may be recorded to disk compact disk, cassette, VHS tape, or other recording media: the media may be recorded at the point of sale location.
with,

for the acquisition of merchandise, but may be kept as proof of authorization.

21. The following text is to be inserted at insertion label [21]
The content itself may be recorded to disk compact disk, cassette, VHS tape, or other recording media of the user's choice. The media may be recorded at the point of sale location, but it is the choice of the user as to how the material object will be manifested.

22. The following text to be inserted at insertion label [22]

because of the content based fingerprinting employed (see Content Fingerprint Cataloging below).

23. The following text to be inserted at insertion label [23]

, in situations where desired such as non media merchandise, but is not required or a part of the claims in this invention

24. Replace the following text at label (24)

Content Fingerprinting,

Content fingerprinting
with,

Content Fingerprint Cataloging

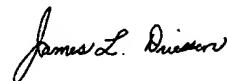
Content fingerprint cataloging

25. Replace the following text at label (25)

The Graphical User Interface (GUI) of the program uses two side-by-side text windows, One window is for the visible message and the other window is for the shorter encoded information, Once the two messages are input, the user clicks on a button for encoding which makes all the necessary adjustments to encode the hidden information into the visible message and saves to one file.

with,

Content fingerprinting techniques, historically, have most often been used in legal evidentiary scenarios. Most commonly, a media expert is called in as a witness to testify whether or not a particular sample of media is an original, a copy, or if it has somehow been tampered with. For copyright infringement cases, particularly in black market (bootlegging) cases, the expert is usually not asked to testify about the media content, but more often



testifies as to the packaging and whether or not the material object is indication of authorized or infringing copy. None of these methods is sufficient in today's scenarios where we must be able to determine who, how, and where, and when infringing copies came to be posted on media sharing websites.

The ability to recognize and catalog non conditioned audio tracks for fingerprinting is also not adequate for discriminating among huge lot sizes such as a platinum (million copy) selling album. Those differences that worked so well in legal evidentiary situations, telling one single media track from another, fall short in distinguishing one from a million virtually identical copies because the amount of data required in the database is simply overwhelming.

The RPOS database can consist of all the normally expected useful data fields for a cataloging system of authorized licensed users for a copyrighted work, e.g User Name, Last Known Address, Purchase Date, Audio Title purchased, etc. All of this information, and anything else that one could choose to contain within the database can all be indexed through a serial number. When watermarking is used in conjunction with fingerprinting, there is no need to store in the database a copy of the media track, information about the media track fingerprint, or include an indexing system capable of finding all of those properties. All that is needed is the serial number because that particular information is always piggybacked right along with the possibly infringing media itself.

26. The following text is to be inserted at insertion label [26]

While these methods of preconditioned fingerprinting are provided as a basis for explaining the best use of the RPOS, the actual preconditioning (watermarking) techniques are not part of the claimed invention, merely a necessary step in developing the content based identification catalog system. The catalog system, on the other hand, is an important part of the claimed invention.

27. The following text is to be inserted at insertion label [27]

because the a,c,e,g,i,k,m,o,q,s,u,w,x, and y are printed in courier 10 BT, and the remaining letters are printed in Courier new

28. The following text is to be inserted at insertion label [28]

While concealed ASCII is not truly content based (it is on file not the content), it approaches content based because it is not merely concealed in the file header, but is spread throughout the document.

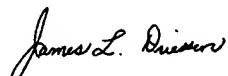
29. Replace the following text at label (29)

Content Fingerprinting Usefulness

Fingerprinting documents is a useful and new idea. The usefulness of the specific methods shown here is greatly diminished when patented and the PTO discloses to the public. The actual methods of fingerprinting really should be kept as "Trade Secrets".

with,

Content Fingerprint Cataloging Usefulness



Preconditioned Fingerprint Cataloging of documents is a useful and new idea. The usefulness of the specific methods for marking as shown above is greatly diminished when patented and disclosed to the public. The actual methods of fingerprinting (watermarking) really should be kept as "Trade Secrets".

30. The following text is to be inserted at insertion label [30]

They are given as flow charts and schematics which are not specific mechanical drawings; thus the parts of the drawings are not individually numbered and are provided merely to help in understanding of the invention to one reasonably skilled in the art.

31. Replace the following text at label (31)

required for the customer to choose which media content to purchase and to later retrieve on whatever computer the customer chooses.

with,

desired when the customer is attempting to choose which media content to purchase. The customer can later retrieve the media on whatever computer or network port the customer chooses.

32. Replace the following text at label (32)

is an example of Hidden Pixelization for Content Fingerprinting

with,

shows a schematic of how pixels are laid out in a typical bitmapped or other digitally formatted image as an example of Hidden Pixelization for Content Fingerprinting.

REMARKS ON AMENDMENTS TO THE DESCRIPTION

While a few of the amendments are simple corrections of obvious error, the main intent behind the requested amendments in the description is to help an examiner better understand the context and subject matter of the invention as required under §112 of Title 35.

In compliance with §112 requirement of best mode presented, references to "content fingerprinting" were found in the original application, yet no claims specifically referenced any of the actual "marking" techniques as described. The absence of claims to the "marking" techniques described was deliberate. The amendments in the description help better define "content-based serialization" which is the mode most clearly connected with the use of the invention.

Clarification of the fact that the actual "marking" techniques of content-based serialization as not part of the claimed invention, but part of the best use of the invention,



only serves to helps restrict the scope rather than broaden. Therefore none of the amendments proposed in any way introduce new matter to the RPOS.

AMENDMENTS TO CLAIMS

33. Delete the following text at deletion label {33}

entering shipping address as desired by customer unless it is content which may be immediately downloaded, recorded, or

34. Replace the following text at label (34)

comprised of
with,
comprising;

35. Replace improper upper-case text with lower case text at MULTIPLE label positions
(35)

36. Replace duplicate number at numbering system at label (36)

2
with
3

and thereafter consecutively assign claim numbers

37. The following text is to be deleted at deletion label {37}

Any

38. Replace the following text at label (38)

comprised of
with,
comprising;

39. Replace the following text at label (39)

comprised of
with,
comprising;

40. Replace the following text at label (40)

that is comprised of
with,
comprising;

41. Replace the following text at label (41)

that is comprised of
with,

James L. Dinsmore

comprising;

42. Replace the following text at label (42)

audio and/or video
with,
audio, video, text or other content media

43. The following text is to be deleted multiple times at deletion label {43}

added

44. The following text is to be inserted at insertion label [44]

detect

Replace dependant claim numbering reference as a result of amendment (36) at correction label (45)

10

with,

11

45. The following text is to be inserted at insertion label [45]

cataloging, indexing, databasing, or other means of creating a sequential record of said label;

46. The following text is to be inserted at insertion label [46]

to divine its serial number or other identifying information.

REMARKS ON AMENDMENTS TO CLAIMS

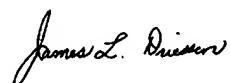
Applicant wishes to echo the remarks made from amendments to description. The advancement in the art of content based identification for this invention is in the improved techniques that allow for serialization of many otherwise identical to human perception media samples, not simply detecting whether one particular is an original or a copy. The amendments merely seek §112 compliance for keeping the claims most nearly connected with the invention as described in the specification. None of the amendments to claims seek to introduce new matter, on the contrary, they simply serve to narrow the scope of the invention as originally described in the initial application.

AMENDMENTS TO DRAWINGS

Replace all drawings numbered 1 through 9 included on the original application with new drawings herein included in the clean version.

COMMENTS ON AMENDMENTS TO DRAWINGS

Drawings in the original application were not typical black line drawings. They were made of pictures and computer graphics. The replacement drawings are identical in every



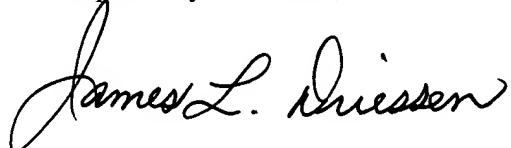
way to the original except that they are now hand drawn black line pictographic representations which help one of ordinary skill in the art to understand and interpret the rest of the specification.

Attached hereto is a marked-up version of the changes made to the specification and claims by the current amendment. Those attached pages are clearly marked Version with Markings to Show Changes Made as a header to each page.

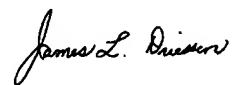
As the original application contained text formatting that may also have proved difficult for optical character recognition (OCR), an additional clean version of the entire application is included in hopes to simplify the OCR process for the examiner. That document is marked only on the first page Clean Version with Changes.

Applicant respectfully requests Notice of Allowance be issued in this case.

Respectfully submitted,



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ABSTRACT

[1] Digital media has raised new questions about what exclusive rights original copyright holders have to protect their works from being used without permission. While many peer to peer (P2P) technologies have arisen in recent months which facilitate non-licensed distribution of digital media over the Internet, Retail Point of Sale (RPOS) for Internet merchandising is a method for the money transaction required in the selling of merchandise or media content on the Internet. A retail point of sale transaction involves at least one in-person contact with the buyer. On the Internet, it has always been assumed that this transaction must be conducted virtually on the Internet; after all, the Internet is a virtual realm. [2] RPOS is a new approach to Internet merchandising that can facilitate the control of copies from copies (Serial Copy Management) through a content based identification system which survives beyond the first transaction. RPOS uses a cataloging system whose entries are generated in conjunction with media content fingerprinting prior to the sale, which may include such information as User Name, Last Known Address, Purchase Date, Music Title, and Serial Number. RPOS technology allows for preconditioning of media in the first place, thereby making the fingerprint generating portion of the architecture much more efficient.

{3} However, a predefined transaction may authorize access to web content from a place off the web. It can originate at a real place of business. Purchasers (end-users) must physically go to a retail location, choose the media or merchandise they wish to acquire, proceed to a checkout (where age can be verified, if necessary), and pay with or without a credit card. (4) At this point they are either given a CD or other recorded media with their selections, or a ticket that contains the necessary access codes to download individually licensed media from a server. The system would also imprint each recording purchased with a unique, non-audible or invisible code signal sequence that would provide traceability back to the original purchaser. At this point they are given an entry ticket that contains the necessary access codes to download individually licensed media from a server. Content or merchandise created using the RPOS can then be resold on the Internet and the tracking system will remain intact. {5} Trained Internet professionals may not be able to grasp the concept of retail point of sale immediately or understand its usefulness, they have been conditioned towards more complicated means of accomplishing the tasks directly on the Internet. While this may be called the more a simplistic approach than the existing way of Internet business, it is not the most obvious approach. RPOS is conducting transactions off the web so that business can be done on the web.

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(6) BACKGROUND DESCRIPTION

{7} 1. Field of the Invention

This invention relates generally to purchasing systems via a public computer network system (Internet or World-Wide-Web). While the products sold on the Internet are often real and tangible, the market place exists in a virtual realm. To conduct the business of selling in the virtual realm of the Internet, a virtual transaction had to take place; or so it has been thought. This Invention (8) requires utilizes non-virtual transactions that take place at a retail point of sale for a means of virtual merchandising.

2. Related Prior Art

Retail industries can exist anywhere. The historical version of retail was the actual retail point of sale. A retailer established a store where customers could visit, look at merchandise and make purchases. The customer had to visit the store in order to purchase the products. Other forms of retailing have existed like local street vendors, door-to-door salesmen, shop-by-telephone, mail order catalogs, informercial shop-bytelephone, and most recently, the Internet.

To understand the difference between this invention and prior art, one must first be able to understand the differences between retail point of sale and other methods of sale. There is always a time variable involved with merchandising transactions, but one should not make the mistake of assuming that time is the essential element that distinguishes between direct purchases and those on account. The basic formula for establishing a credit account is where the purchase price (P) of a product can be paid at a later time (T), an interest rate (R) can be assessed, and the amount paid (A) = $P(1 + R)T$.

A person may gain extra time to pay for a purchase by using credit that one will extend credit to the other that creates a credit account, but it is the agreement between parties. Time has no meaning in the direct purchase formula (A) = P, For that matter, there is always some lag between the time payment is tendered and possession takes place even if for just split seconds. Sometimes a lag between payment and possession requires a voucher so that the purchaser has some proof that payment has been made. The voucher is usually just a simple sales receipt. Other times it can be a ticket such as for attending a theater or other engagement. The voucher (9) in this case used in RPOS does not represent an account or value of money. The voucher merely represents that the transaction has been completed and the merchandise, whether physical merchandise or simply entertainment, has been authorized.



TYPE

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Retail points of sale transactions involve at least one in-person contact with the buyer. On the Internet, it has always been assumed that this transaction must be conducted virtually on the Internet; after all, the Internet is a virtual realm. With the huge rise in popularity the Internet, there are rising concerns from the public about who should and who should not be able to access certain Internet content such as but not limited to: materials with copyrights such as music, content that is adult in nature, or other restricted access material.

Regulatory authorities and web masters have made attempts to control access through the selling of access rights over the Internet itself. These services are often called subscription based I.D. or age verification services. User names and passwords or other means of secure access have been delivered to consumers after they entered credit card information. This has become an accepted means of control, particularly with Adult Verification systems.

Public Key infrastructure (PKI) is one method that has evolved into a secure and anonymous means of handling web transactions through the uses of encryption, trusted vendors, and trusted banking institutions. PKI methods of Web transactions involve digital signature and money transactions over the Internet. They require a customer, a bank, a merchant, a public archive such as an Internet web site, Certificate Authorization servers, and encryption and decryption of the data.

Most secure web transactions require cookies and Web delivered applets (such as JAVA **[10]**, CGI, ASP). A cookie is information that a Web site puts on an end-users hard disk so that it can use the information at a later time. **(11)** Using the Web's Hypertext Transfer Protocol (HTTP), In the past, there have been other Retail Point of Sale inventions that employ computer networks to deliver the authorization for the manufacture of media goods, but this RPOS system does not manufacture anything, it merely provides a prepaid entry ticket and tracing authority that gives the end user the permission to own the merchandise.

When the time comes time for the end-user to obtain the merchandise using the RPOS, each request for a Web page is independent of all other requests. For this reason, the Web page server **(12)** ~~has no memory of what pages it has sent to a user previously or anything about previous visits. A cookie is a mechanism that allows the server to store its own information about a user on the user's own computer. For example, the Internet Explorer browser stores cookies in a Windows subdirectory. Netscape stores cookies as a single text file. requires no additional input memory of the download transaction because all of that has taken place previously. The server does not need to know what pages it has sent to a user previously or anything about previous visits. No cookies are required to store its own information about a user on the user's own computer. For example, the Internet~~

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Explorer browser stores cookies in a Windows subdirectory. Netscape stores cookies as a single text file. RPOS does not require such a cookie system, but cookies may be used for other non-transactional features only if desired.

RETAIL POINT OF SALE APPARATUS (RPOS) FOR INTERNET MERCHANDISING is a return to the simplistic approach of pre-Internet ways of doing business, but it is not an obvious approach. As malicious attackers of Internet communications become more common, the Internet security measures become increasingly sophisticated. The RPOS takes away some of the sophistication and uses much simpler yet effective technology in its place. The predefined transaction authorizes access to web content from a place off the web, originates at a real place of business, and is a concept that a trained Internet professional may not be able to grasp immediately; they have been conditioned towards more complicated means of accomplishing the tasks directly on the Internet.

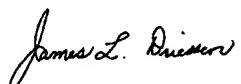
{13} ~~The U.S. Patent and Trademark Commissioner announced that the Agency would be revamping its patent examination guidelines for computer related inventions and e-commerce practices, see United States Patent and Trademark Office RIN 0651 AB20.~~ RPOS would not negatively affect any electronic commerce as it currently operates. It would primarily be used in conjunction with current methods. A return to a retail establishment for conducting Web business may hold great promise for Internet security in the future. A search of past practices and inventions reveals a great deal of effort spent on avoiding over-the-counter transactions for Internet e-commerce rather than embracing it as does the RPOS technology.

3. Prior Art Differentiated

{14} ~~There are three key questions to be asked when attempting to differentiate the technology:~~

- i. ~~Do they take cash?~~
- ii. ~~Is there an establishment that acts on behalf of the customer for payment that employs nonvirtual (Ret" point of sale) to complete the transaction?~~
- iii. ~~Does the customer have to physically go to the establishment to buy it?~~

The field of Internet e-commerce has numerous existing patents. A complete search for prior history was not done prior to this filing but a few similar patents were found through a most basic search of the on-line {15} USPTO patent databases. They are reference below to help set the stage for one skilled in the art of Internet commerce to understand the differences between RPOS and previous methods.



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This invention is not a Prepaid Internet Access Card, such as used to supply the purchaser of minutes on an Internet Service Providers (ISP) system, see US examples Patent Nos. 5,749,975; 5,987,612; 5,749,075, 5,987,430.

This invention is not merely a method for recording information on a card, computer disk, or other means of recording, see US example Patent No. 6,076,733. The method of recording might be bar code, magnetic tape, smart card, written inscription, or any means of recording information. This invention is not used to locate a specific URL, but is used to divine the predetermined transaction that provided access to a particular URL location.

This invention is not an organizational Internet access security system whereby business organizations control access to web content of their own employees or to others on a closed network or to generate personalized content pages for specific business purposes, see US Patent No. 6,076,166

This invention is not an Internet cash token system used as an anonymous means to get money to spend on the Internet. See US examples Patent Nos. 6,076,078; 6,072,870; 6,061,660; 6,042,149

This invention is not electronic-voucher system, which places a third party URL as the guarantor of funds. See US example 6,058,381.

This invention is not a mobile Internet media content delivery device in which the device itself carries the content. See US examples Patent Nos. 6,018,720.

This invention is not a means to preview merchandise and set up an account to purchase - as in US Patent No. 5,918,213, where the merchandise merely previewed at the point of sale, but then the transaction is conducted as an off the shelf purchase, through typical Internet methods, or phone-in-sale automated means. The retail point of sale apparatus for Internet Merchandising is a new means for conducting the actual transaction that could be added to such a system.

This invention is not a device for delivering media content through on-line programmable smart card authorization such as used in satellite television programming, or Web TV devices, where a home user of the system can call in on the telephone to order Pay-per-view programming. In these systems the smart card both receives and supplies data to the system over a private network. RPOS does not require programming after the initial over-the-counter transaction.

[16] This invention is not a means to provide for manufacture of a material object at the location of purchase, see U.S. patent 4,528,643. The end-user (customer) has the choice of how to create the material object.



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RPOS merely provides the entry ticket for the customer to obtain the merchandise or media at their own leisure in the format of their choosing.

Although the user of the RPOS may be known, it can also be used completely anonymously. This invention is much like an event ticket to a movie theater or music concert except that the RPOS is specifically used for access (entrance) to Internet merchandising.

While RPOS can facilitate Secure Web Transactions, it is not a method of the transaction, merely a method of divining the existence of a predetermined web transaction. It does not require a trusted vendor, trusted bank, or buyer authentication. While RPOS may facilitate some of the same types of functions mentioned above, it uses a completely new method.

{17} BRIEF DESCRIPTION OF THE INVENTION

This invention is essentially retail point of sale for the Internet. In order to best set the stage for a reader of this patent application to best understand the background of this invention and distinguish it from prior art, several descriptive names of the invention are listed below. This is not intended to be an exhaustive list but merely illustrates some of the ways such an invention can be used. After this list, for the remainder of this document, the Invention will be referred to as the RPOS. Although it involves a voucher system, the voucher need not exist in all circumstances. RPOS can use a disk, paper ticket, memory stick, or any other means of supplying an access key and utility program.

Descriptive Names

1. Internet Content Voucher System
2. Cookie Free Cache Back System Card
3. Prepaid Card for Internet Content Media
4. Web Content Ticket
5. Over-the-counter Internet Sale
6. Simple Anonymity for Internet Content Delivery
7. Face-to-Face Verification System for Divining of Anticipated Internet Transaction
8. Non-Virtual Point of Sale for the Internet
9. Retail Point of Sale Card for Internet Content
10. Internet Authentication Card
11. Internet Adult Verification Card



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12. Internet Allocation Card

The RPOS is an "actual point of sale" device for Internet content. Previous waves of invention attempting to satisfy the needs of secure web content on the Internet have delivered many "virtual point of sale" techniques and emphasis has been on the transaction itself and how to exchange money over the Internet.

When considering Prior art, the RPOS invention differs most noticeably from previous methods in the way it does not follow the trend to do everything on the Internet and uses "actual point of sale" as the place where a predefined Internet sales transaction takes place. The information provided by web delivered cookies or applets is not required by RPOS because the information is already included; it is hand delivered to the computer by the user.

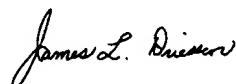
[18]Once media has been delivered and cataloged, further transfers may take place on the Internet using traditional Internet transactions, but the individual serialization of the RPOS transactions remains intact. The method of individual serialization is achieved through content-based identification and can be used for later RPOS transactions or any other subsequent Internet transaction.

(19) DESCRIPTION OF INVENTION

A security access key is provided in the form of a prepaid card sold as a retail item. The access key has a one time or multiple Internet session use as provided by the seller of the card. Through obtaining the CARD, the purchaser gains access to the website or specific web page(s) intended by the seller for either a defined duration of time or indefinite duration of time. Any time the end-user (customer) of the CARD is on the Internet, a very simple utility program may be deployed to ensure that there are no changes to the cache content of the customer's computer and no cookies are accepted or transmitted during the delivery of the media content.

The utility of the invention is that it provides a method of controlling web access that requires at least one transaction be completed in person. No connection to a banking system for credit referencing is required, no vast system of computer networks is needed to verify anonymity and account status. The actual transaction takes place over-the-counter. The delivery takes place on a computer of the users choice.

The CARD is a voucher system that is used only to authenticate that the user of the card is in fact the one in possession of it. The user of the CARD uses the CARD to access the content or merchandise from the computer of their choice. As the time required for the user holding the card to receive the desired content is decreased, the need for the CARD itself may become unnecessary (20). The content itself may be recorded to



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~~disk compact disk, cassette, VHS tape, or other recording media: the media may be recorded at the point of sale location, for the acquisition of merchandise, but may be kept as proof of authorization.~~

[21] The content itself may be recorded to disk compact disk, cassette, VHS tape, or other recording media of the user's choice. The media may be recorded at the point of sale location, but it is the choice of the user as to how the material object will be manifested. The content that is recorded may be Internet content media or the content may be the purchase agreement for merchandise. When the content is a purchase agreement for merchandise, the payment can be made for the merchandise by the RPOS. The RPOS assumes responsibility for payment to the Internet vendor and the purchaser specifies the shipping address of such merchandise. The CARD in this situation may simply be a receipt of sale or other proof of payment.

Unlike any previous method of payment for Internet commerce in the past, there is no account, credit, or other means of electronic payment required for the buyer in the transaction. The proof is within the content itself **[22]** because of the content based fingerprinting employed (see Content Fingerprint Cataloging below). The content becomes the verification of a sale.

Internet merchandisers such as but not limited to Amazon, Barnes and Nobel, Buy.com, Outpost, and others provide a verification page for each sale, which they intend to be printed by the user. These types of verification pages are excellent examples of specific URL information that can be determined ahead of time and sold whether it is for merchandise or content media.

When the purchase is for non-prepackaged merchandise such as Content media, the media may be individually licensed with a unique serial number for protection against counterfeiting. Content fingerprinting is one of the methods used. Traditional digital signature may also be used **[23]** , in situations where desired such as non media merchandise, but is not required or a part of the claims in this invention.

(24) Content Fingerprinting,

— Content fingerprinting

Content Fingerprint Cataloging

Content fingerprint cataloging would be used for printing secure documents, discouraging unauthorized use, sending secret encoded messages, authentication of modification of documents, counterfeit detection, or other application requiring secure distribution of Internet materials. Content fingerprinting differs from digital signature or digital watermark in that the fingerprinting is not on the file itself but on the content of the file.



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In the Industry of Internet publishing, one of the problems has been unauthorized copying, posting or otherwise revealing of sensitive materials for wide distribution. Millions of dollars in uncollected royalties are lost each year. Publishers have no way of detecting the responsible parties who willfully post the materials or otherwise "leak" the materials for wide distribution. The answer to the problem is a mechanism or way to "mark" individual copies of recorded material for licensing so the publishers can feel confident that appropriate royalties are being paid. The "mark" should be something not easily detected or removed.

(25) ~~The Graphical User Interface (GUI) of the program uses two side-by-side text windows, One window is for the visible message and the other window is for the shorter encoded information. Once the two messages are input, the user clicks on a button for encoding which makes all the necessary adjustments to encode the hidden information into the visible message and saves to one file. Content fingerprinting techniques, historically, have most often been used in legal evidentiary scenarios. Most commonly, a media expert is called in as a witness to testify whether or not a particular sample of media is an original, a copy, or if it has somehow been tampered with. For copyright infringement cases, particularly in black market (bootlegging) cases, the expert is usually not asked to testify about the media content, but more often testifies as to the packaging and whether or not the material object is indication of authorized or infringing copy. None of these methods is sufficient in today's scenarios where we must be able to determine who, how, and where, and when infringing copies came to be posted on media sharing websites.~~

The ability to recognize and catalog non conditioned audio tracks for fingerprinting is also not adequate for discriminating among huge lot sizes such as a platinum (million copy) selling album. Those differences that worked so well in legal evidentiary situations, telling one single media track from another, fall short in distinguishing one from a million virtually identical copies because the amount of data required in the database is simply overwhelming.

The RPOS database can consist of all the normally expected useful data fields for a cataloging system of authorized licensed users for a copyrighted work, e.g User Name, Last Known Address, Purchase Date, Audio Title purchased, etc. All of this information, and anything else that one could choose to contain within the database can all be indexed through a serial number. When watermarking is used in conjunction with fingerprinting, there is no need to store in the database a copy of the media track, information about the media track fingerprint, or include an indexing system capable of finding all of those properties. All that is needed is the serial number because that particular information is always piggybacked right along with the possibly infringing media itself.



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This document suggests just some basic methods of fingerprinting Internet content: Font Fingerprinting, hidden pixelization, concealed ASCII and non-visible/inaudible codification. **[26]** While these methods of preconditioned fingerprinting are provided as a basis for explaining the best use of the RPOS, the actual preconditioning (watermarking) techniques are not part of the claimed invention, merely a necessary step in developing the content based identification catalog system. The catalog system, on the other hand, is an important part of the claimed invention.

Font Fingerprinting

Bar codes are typically comprised of black and white stripes, yet all that a bar code really represents is a binary code. For Font Fingerprinting of Internet content, hidden binary codes are placed into documents so that a specific record of the content travels with the document. It is much different from digital signature for example where the file itself is tagged and encrypted and can't be read unless the proper keys are used to decrypt the message. For fingerprint marking of the document, the mark stays with the document even after it is properly received and possibly changed.

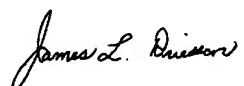
A base font is modified only slightly so as to not be immediately noticeable to the human eye, yet enough for machine recognition. The base font becomes the "0" of the binary and the modified font is the "1". Any text string can be modified to imprint a binary coded binary (BCB). The decoding is later accomplished using a scanner with a character recognition system capable of distinguishing the font differences.

Font fingerprinting is particularly designed to be most readily used for printed media, but the fingerprinting could also follow a soft copied document provided the file format remains Rich Text Format (.RTF) or better, giving access to the font aberrations. The font set used for printing the "fingerprinted" document must also be available to the computer that receives the document. Future developments could include a highly compressed file format capable of self-decompression that would mask the fact that the Distributed font set is traveling with the document.

Another method of sending a font generated BCB with a softcopy document, not requiring a font subset file, mixes two available fonts that are a close match such as Courier New with 11 point font and Courier 10 BT with a 10 point font.

Courier New: abcdefghijklmnopqrstuvwxyz

Courier 10 BT: abcdefghijklmnopqrstuvwxyz



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Mixed: abcdefghijklmnopqrstuvwxyz (this barcode reads 010101010101101010101010)

[27] because the a,c,e,g,i,k,m,o,q,s,u,w,x, and y are printed in courier 10 BT, and the remaining letters are printed in Courier new)

While this combination is readily visible to the naked eye, the text is not noticeably different unless you know what you're looking for. It was just an attempt at finding a good match, but there may be other good system fonts that are a close enough match.

Hidden Pixelization

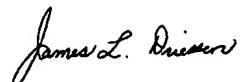
The format of choice for delivery of images over the Internet has been the jpeg, formally the ISO standard 10918, which keeps the file size for delivery fairly small. All digital images of this type are made up of tiny pixels. For hidden pixelization, a jpeg image is converted to a similar image of a higher resolution (more pixels). In other words any single pixel in the original image is recreated as multiple pixels all of the same color. For example a $320 \times 240 = 76,800$ -pixel image becomes a $640 \times 480 = 307,200$ pixel image, or roughly four pixels per one pixel of the original image.

Several of the pixels from these new higher resolution images can then be encoded with a BCB by varying the shades within the 4 pixels only slightly - leaving the neutral color of the original larger pixel essentially unchanged. Any documents delivered over the Internet that contain these images are thereby permanently marked.

This re-pixelization creates four available binary codes in the original pixel. The original color is the "0" code and the slightly changed shade is the "1" of the binary. One of the keys to making this systemless detectable is to disguise the encoding by causing the encoded jpeg file to still report to the user that it is still a 320×240 image when in fact it has been changed to a 640×480 image and then report back to the viewing system the proper resolution. If the user resaves the image into a different format such as GIF, the code may or may not be transferred, but as long as images in documents are untouched, the document remains fingerprinted.

Concealed ASCII

ASCII stands for American Standard Code for Information Interchange. ASCII was developed a long time ago and the characters are not always used in the same way on different computer systems. ASCII was originally designed for teletypes and the first 31 characters in today's applications are no longer used as



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originally intended. Concealed ASCII finger printing takes advantage of the fact that several of them act the same as the ASCII character "032" in many applications. ASCII 32 is the code for a blank space.

ASCII characters 0, 10, and 13 do not display anything on most Windows applications. Character 9 will move to a tab, making a long blank space. 16-25 and 27-31 produce a black area on the screen in some applications and a blank area in others. So do 1-9, 11, 12, 14, and 15 on some Windows applications-, however, they often cause error messages in the compiler for many applications. Concealed ASCII can create a BCB by using the standard ASCII 32 in spaces as the "0" character of the binary and an alternate ASCII 0, 10, or 13 with ASCII 32 as the "1" character of the binary.

Example: The quick gray fox jumps over the lazy brown rabbit.

There are nine spaces to use for the BCB in the preceding phrase. The code in the example above reads 010000111. The code for the 2nd, 7th, 8th, and 9th spaces in the phrase is ASCII 10 followed by ASCII 32. The remaining spaces simply use ASCII 32. While the concealed ASCII fingerprinting is not printable, it can be used to travel with text of a printable document

Concealed ASCII can easily be lost when transmitted as plain text over the Internet and other systems, but many documents are transmitted over the Internet in specific file formats that would maintain specific ASCII sequences not visible to the reader without looking to the particular codes that generated the text.

[28] While concealed ASCII is not truly content based (it is on file not the content), it approaches content based because it is not merely concealed in the file header, but is spread throughout the document.

Non-visible or Inaudible Codification

Analog signals of non-discriminable frequencies for human ears or eyes are individually dubbed into audio recordings, which can later identify the origin of the recording. The sights or sounds are created using a frequency, signal generator, or other means of creating analog signals. The analog signals, which cannot be heard by humans on the recording, can be used for distribution of copyright materials such as mp3 music or dubbed into the soundtrack of a video that is distributed on the World-Wide-Web (Internet).

Identical songs or videos by the same artist can become individual versions that are licensed to individuals. Using sensitive digital software and computer sound editing tools available from a number of manufacturers the sights and sounds outside the range of human discernment can later be detected to verify if



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the recording is in fact licensed and who is the owner of the license. The analog signals essentially encode any individual identification to a song, video, or other media that contains audio or video tracks.

The human sound range is between 20 and 20,000 hertz for a young person and much less for an old person. The human visual range for light lies within a range around 109 MHz. Visual analog signals can also be dubbed into digital video recordings. The key to non-visible or Inaudible Codification is merely that that signals are dubbed into the content and not just on the file itself

(29) Content Fingerprinting Usefulness

~~Fingerprinting documents is a useful and new idea. The usefulness of the specific methods shown here is greatly diminished when patented and the PTO discloses to the public. The actual methods of fingerprinting really should be kept as "Trade Secrets".~~

Content Fingerprint Cataloging Usefulness

Preconditioned Fingerprint Cataloging of documents is a useful and new idea. The usefulness of the specific methods for marking as shown above is greatly diminished when patented and disclosed to the public. The actual methods of fingerprinting (watermarking) really should be kept as "Trade Secrets". The above methods are not fool proof or even sophisticated enough to hold up against even the least sophisticated of hackers. They are merely offered here as examples of how to individually license Internet materials. As industry looks to the Internet for delivery of every kind of copyrighted material, there will be other specific methods of fingerprinting. Since, nobody is working on this type of copyright protection, the concept itself might be of strategic advantage. Fingerprinting Internet delivered media may involve documents, images, videos, sound tracks, or any other type of media that can be produced for the Internet.

DESCRIPTION OF DRAWINGS

The following drawings provide examples of different applications and construct specifications for the RPOS technology. They are not meant to be inclusive of all uses, they are merely examples. **[30]** They are given as flow charts and schematics which are not specific mechanical drawings; thus the parts of the drawings are not individually numbered and are provided merely to help in understanding of the invention to one reasonably skilled in the art.

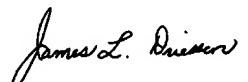


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Figure #1 uses a flow chart to illustrate a use of the RPOS. The process begins with web content dealers who have content posted to a public computer network (Internet) and have chosen to use RPOS for distribution. The web content dealers may manufacture the card themselves or use a third party. The type of security system used for placing the access key on the card is only important as to the particular level of security that is desired. The web content dealer then distributes the CARD, directly or through distribution channels, to a retail establishment. The retail establishment sells the CARD over the counter to the customer. The dealer, distributor, and retail establishment may use whatever profit margins or price mark-ups as they choose or is agreed upon. The CARD is delivered to the customer like any other retail product. Continuing along the flow chart in Figure #1 to the customer, the CARD is used to access only the web content that is predefined by the CARD. The purpose of the CARD in this transaction is only to ensure that the user is in possession of it. The transaction takes place through an over-the counter sale.

Figure #2 uses a flow chart to illustrate an alternate use of the RPOS, which is the construct specification for claim 3 in this application. The process again begins with Web Content Dealers. In this application the Web Content Dealers may or may not subscribe to the RPOS system (i.e. make their own CARDs). To facilitate the creation of a CARD for the WEB Content Dealers, a retail establishment supplies a computer or terminal as a customer access point, which provides Internet access, and issues a CARD to a customer upon entering the retail establishment. The customer browses the web and looks for content to purchase. Whenever a Web Content Dealer requires some sort of payment and the customer agrees, the customer authorizes payment from the retail establishment and by default the retail establishment agrees to the purchase. The customer is not required to enter his or her own name, credit card payment information, address, or any other information that they do not choose. Upon leaving the establishment, the customer pays the retail establishment the amount required for content received or to be received. The purpose of the CARD in this transaction is only to ensure that the user is in possession of it. The actual transaction takes place through an over-the-counter sale.

The processes described in figure #2 illustrate a subtle yet important difference from prior art used in Internet commerce, in that Internet access is only (31) required for the customer to choose which media content to purchase and to later retrieve on whatever computer the customer chooses desired when the customer is attempting to choose which media content to purchase. The customer can later retrieve the media on whatever computer or network port the customer chooses. Internet access is not required during the recording of specific media content locations (URLs); they can be simply written down, picked out from a written menu after having seen the web dealers preview pages, or retrieved as a menu item from the local computer at the check out.



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Internet access is also not required during the recording of the specific access information, or during the retail transaction. While Internet Access during these processes may be used to facilitate the RPOS processes, it is not required. While the CARD holds some intrinsic value it does not hold any dollar amount information, account information, or other means of payment; the transaction is completed in person at the checkout.

Figure #3 uses a flow chart to illustrate an alternate use of the RPOS. The process again begins with Web Content Dealers. A Vending Machine Dealer purchases CARDs through normal product distribution channels. Customer purchases the CARD from the vending machine acquiring the ability to access the desired web content. This type of system is not capable of age verification as with over-the-counter sales. Again, the purpose of the CARD in this transaction is only to ensure that the user is in possession of it. The actual transaction takes place through a vending machine.

Figure #4 illustrates how CARD is used as an age verification system (Adult Check). The process begins with dealers of adult materials on the Internet. A retail establishment (such as video rental store, convenience store, bookstore, adult merchandiser, or other type of store) obtains CARDs through typical distribution channels. Customers purchase the CARD over the counter provided they can prove they are of legal age to do so. Customer physically transports the CARD to a location where customer has access to a computer that is capable of receiving Web content. The customer uses the CARD to obtain access to those specific materials the seller of the CARD intended.

Figure #5 is a flow chart for programming the small security application (cache back/cookie free) that helps control security and anonymity.

Figure #6 shows some examples of recording devices that are used or could be modified for use as the media delivery method, access CARD, or to deliver the small cookie-free-cache-back application.

Figure #7 is an example of Font Fingerprinting where a font subset file must be delivered to the user.

Figure #8 (32) is an example of ~~Hidden Pixelization for Content Fingerprinting~~ shows a schematic of how pixels are laid out in a typical bitmapped or other digitally formatted image as an example of Hidden Pixelization for Content Fingerprinting.



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Figure # 9 illustrates the similarities between the New Courier font and the Courier 10BT font.

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CLAIMS

1. A purchasing system for Internet merchandise or media, comprising:
customer access point at a retail point of sale establishment,
said establishment acts as seller through an in-person transaction with said customer,
means for customer, seller, said establishment, or any other party to provide the specific URL information that is
the sale location of Internet merchandise or content desired by the customer,
means for predetermining such URL that consists of a predetermined Internet Transaction,
means of accepting payment whether it be cash or credit,
means of conducting purchase of Internet merchandise on behalf of said customer including entering payment
from said establishment as an intermediate purchaser or other means of distribution to said establishment,
means of storing, retrieving, or shipping of said Internet merchandise,
means of transfer of ownership of said Internet merchandise by {33} ~~entering shipping address as desired by
customer unless it is content which may be immediately downloaded, recorded, or access privileges given to~~
said customer.

2. Method of claim 1 for providing a level of security in predetermining an Internet Transaction for prepaid
media content over a public computer network (Internet) using a computer, (34) ~~comprised of~~ comprising;
(35) ~~M~~edia Content on a public computer network (Internet),
(35) ~~C~~reating or procuring a card, computer diskette, or other means of record;
(35) ~~W~~riting, inscribing, programming, or otherwise placing access information on the card, computer
diskette, or other means of record without requiring access to a public computer network (Internet) during the
recording process whether or not access is actually made;
(35) ~~U~~sing said card, computer diskette, or other means of record as a location for stored information-,
(35) ~~P~~urchasing or other transfer of ownership of said card, diskette, or other means of record through a retail
transaction (non-virtual point of sale) without requiring access to a public computer network (Internet) during
said transfer whether or not access is actually made;

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(35) ~~s~~aid retail transaction whether or not payment consideration is exchanged, i.e. said transaction that may include free samples.

(35) ~~P~~hysically transporting said card, diskette, or other means of record to a computer or other receiving device for a public computer network (Internet);

(35) ~~U~~sing the card, diskette, or other means of record to retrieve said stored information;

(35) ~~U~~sing said stored access information for obtaining media content from a public computer network (Internet).

(36) ~~2. 3.~~ Method of providing a level of security in claim 1 means of transfer of ownership for prepaid media content over a public computer network (Internet) using a computer, comprised of individually coded license, serial number, or other identifying mark through content fingerprinting, comprising:

first a visible, audible, or otherwise humanly detectable label version of serial number, coded license number, or other identifying mark;

a second label that is only machine visible, audible, or otherwise detectable version of serial number, coded license number, or other identifying mark;

said machine only visible, audible or otherwise noticeable label consists of a coded message capable of singularly distinguishing the content from other content of the same or similar type;

{37} Any means of recording, writing, or otherwise placing said machine visible or audible code on said Internet media content for content fingerprinting purposes.

3-4. Method of providing a level of security in claim 1 means of transfer of ownership for prepaid media content over a public computer network (Internet) using a computer, **(38)** ~~comprised of comprising~~; individually coded license, serial number, or other identifying mark through content fingerprinting that uses a code visible or audible otherwise noticeable only by a machine on the said first mark that is a first private key of a first public/private key pair to indicate that said merchandise is authentic and said second label is a second private key of a second private/public key pair used to authenticate the delivery of said merchandise.

4.5. A method transfer of ownership of Internet media of claim 1 by anonymous download (retrieval) of media content over a public network (Internet), **(39)** ~~comprised of comprising~~:



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(35) Pplacing a small amount of programming code (application) on a card, computer diskette, or other means of record;

(35) Wwriting said small amount of programming code (application) to perform the function of adjusting the security settings of a computer or other receiving device for a public computer network (Internet) including, Capturing current Web browsing cache content status (temporary stordge capability including memory and disk cache),

(35) Ecapturing a computer's current operating system recent document content status,

(35) Ttemporarily turning off cache capability for web browsers,

(35) Ttemporarily turning of cookies (ability for remote computers to store information),

(35) Ttemporarily turning off web delivered applet capabilities (e.g. JAVA),

(35) Rreturning cache content status, operating system recent document status, cache capability settings, cookie enabling settings, or other settings changed by application to original state before application was run on said computer;

(35) Rretrieving media content over a public computer network (Internet) during such instance that said application (above) has adjusted the said security settings of said computer.

5.6. Apparatus of Claim 1 for customer access point (40) ~~that is comprised of comprising~~; a store, kiosk, or other customer

access point with a computer with or without Internet access that includes a digital storage device such as hard drive, music or other media content in digital form on said hard drive, a recording device such as but not limited to CD Bumer, DVD Bumer, VHS TAPE Recorder, Cassette tape recorder.

6.7. Apparatus of Claim 1 for customer access point (41) ~~that is comprised of comprising~~; a store, kiosk, or other customer

access point with a computer with or without Internet access that includes a printer to provide means for transfer of ownership of claim 1 of said Internet content by providing said access information of claim 1 by means of a ticket, card, paper, or other recorded media of said access information.

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7.8. Means of claim 1 for said establishment to store, ship, or retrieve said Internet media might be performed by said customer, said establishment, original seller of the merchandise, or other potential party not mentioned.

8.9. A method transfer of ownership of Internet media of claim 1 by recording such media on a recording device such as but not limited to a CD burner, DVD burner, VHS TAPE recorder, or cassette tape recorder and delivering to a customer at the location of said retail establishment.

9.10. A method transfer of ownership of Internet media of claim 1 by recording the URL information and a specific access code to the URL onto any device capable of storing said information.

10.11. Means for **(42)** ~~audio and/or video~~ audio, video, text or other content media recording that includes the ability to dub, loop, mix, or other wise add signals to preexisting content to Individually identify a recording which:

said **{43}** added signals are outside of the frequency range for human discernment,

said **{43}** added signals are for the purpose individually identifying the origin of the recording,

said **{43}** added signals are a code such as binary, morse, or other analog signal device,

said **{43}** added signals are generated as an analog signal and looped, dubbed, mixed, digitally added or otherwise **[44]** detect added to the sound or video stream,

said **{43}** added sounds are individualized when added to multiple recordings of sound content that create technically different sound recordings which are essentially identical to the human ear. C06ko.) 0" D.0

11.12. Product of audio and/or video recording of claim **(45)** 10 11 which is used to determine licensing or serial,

number identification of materials communicated over a public computer network (Internet).

12.13. Means for providing a user identifier to identify one or more recipients of Internet media content (content fingerprinting) comprising the steps of
creating a label, version number, serial number, coded license number, or other identifying mark

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converting the label, version number, serial number, coded license number, or other identifying mark to machine only visible/audible detectable version of serial number, coded license number, or other identifying mark.

dubbing, looping, writing, programming, or otherwise placing said machine only visible/audible code onto previously existing media content.

[45] cataloging, indexing, databasing, or other means of creating a sequential record of said label;

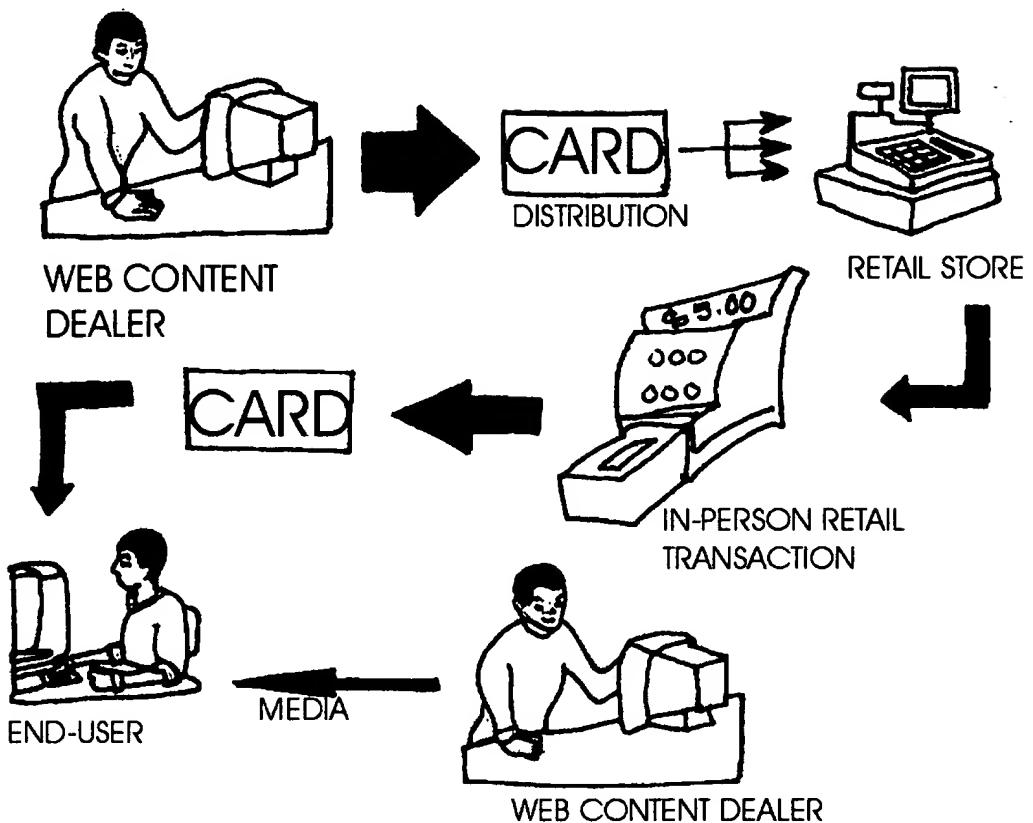
said machine visible label consists of a coded message capable of singularly distinguishing the content from other content of the same or similar type.

said machine visible coded message is binary, Morse, or other discernable code form, means of recording, writing, or otherwise placing said machine only visible/audible code on said Internet media content,

means of reading said machine only visible/audible code on said Internet media content **[46]** to divine its serial number or other identifying information.

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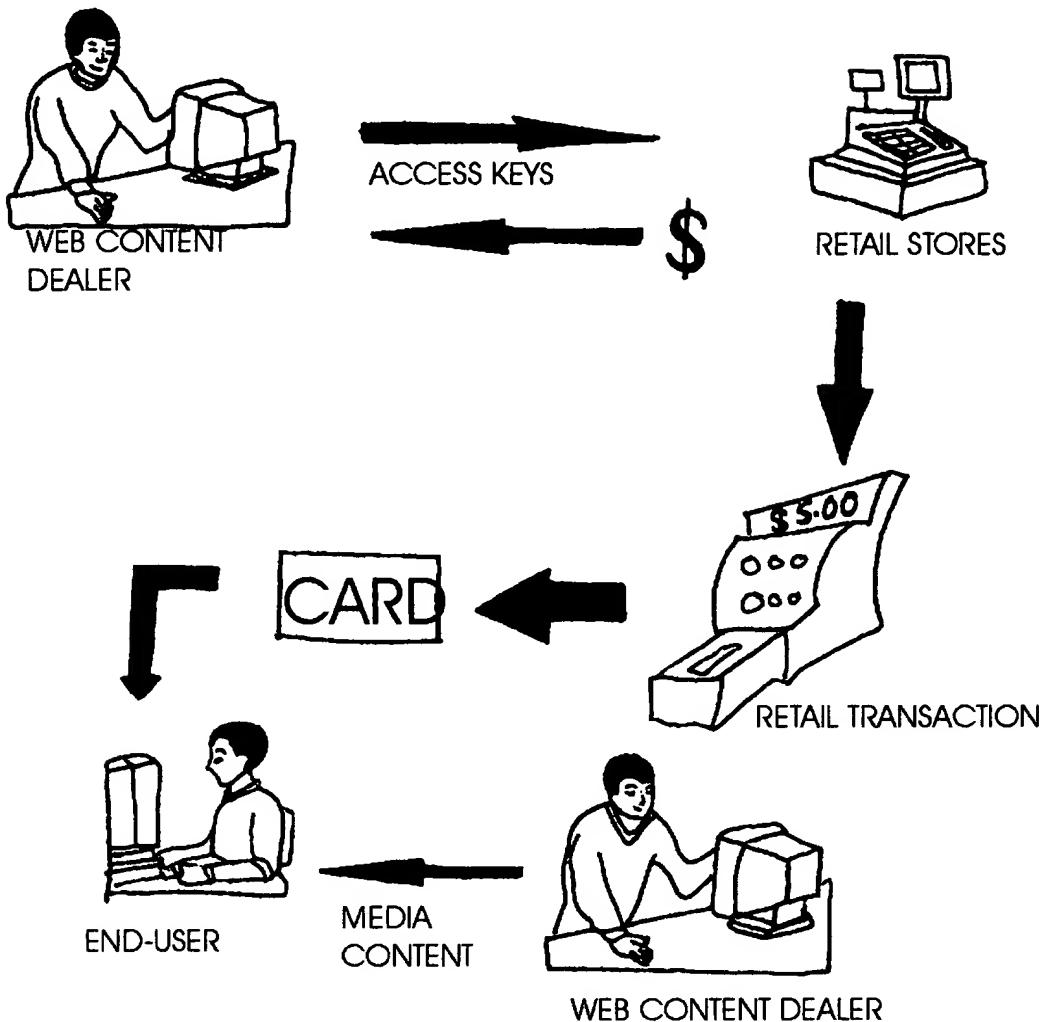


DRAWING 1 to Replace DRAWING 1/9 Standard Distribution Scheme

RECEIVED
JUN 11 2003
GROUP 3600

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Version with Markings to Show Changes Made

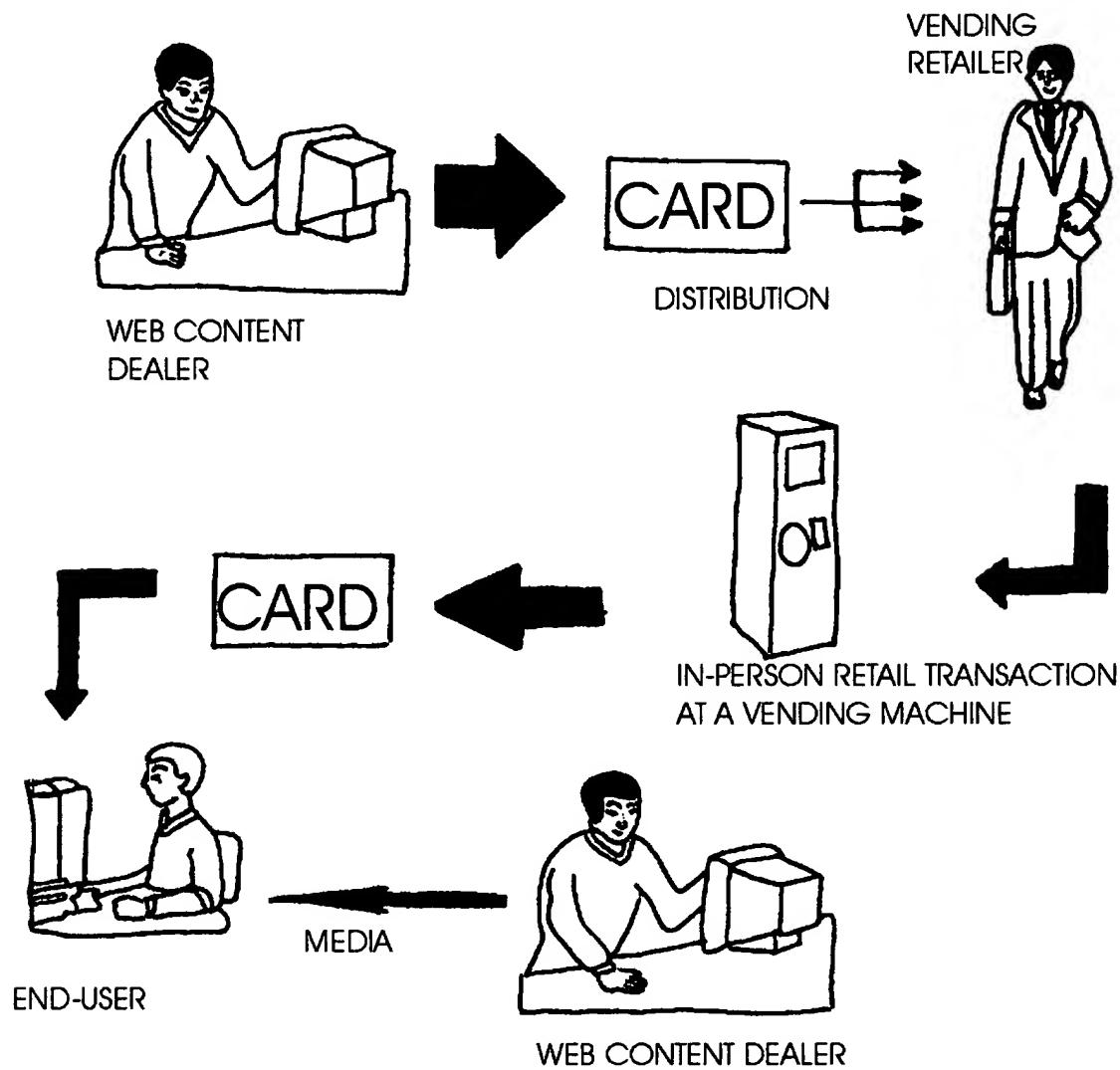


DRAWING 2 to replace DRAWING 2/9 Internet Cafe Style Vending

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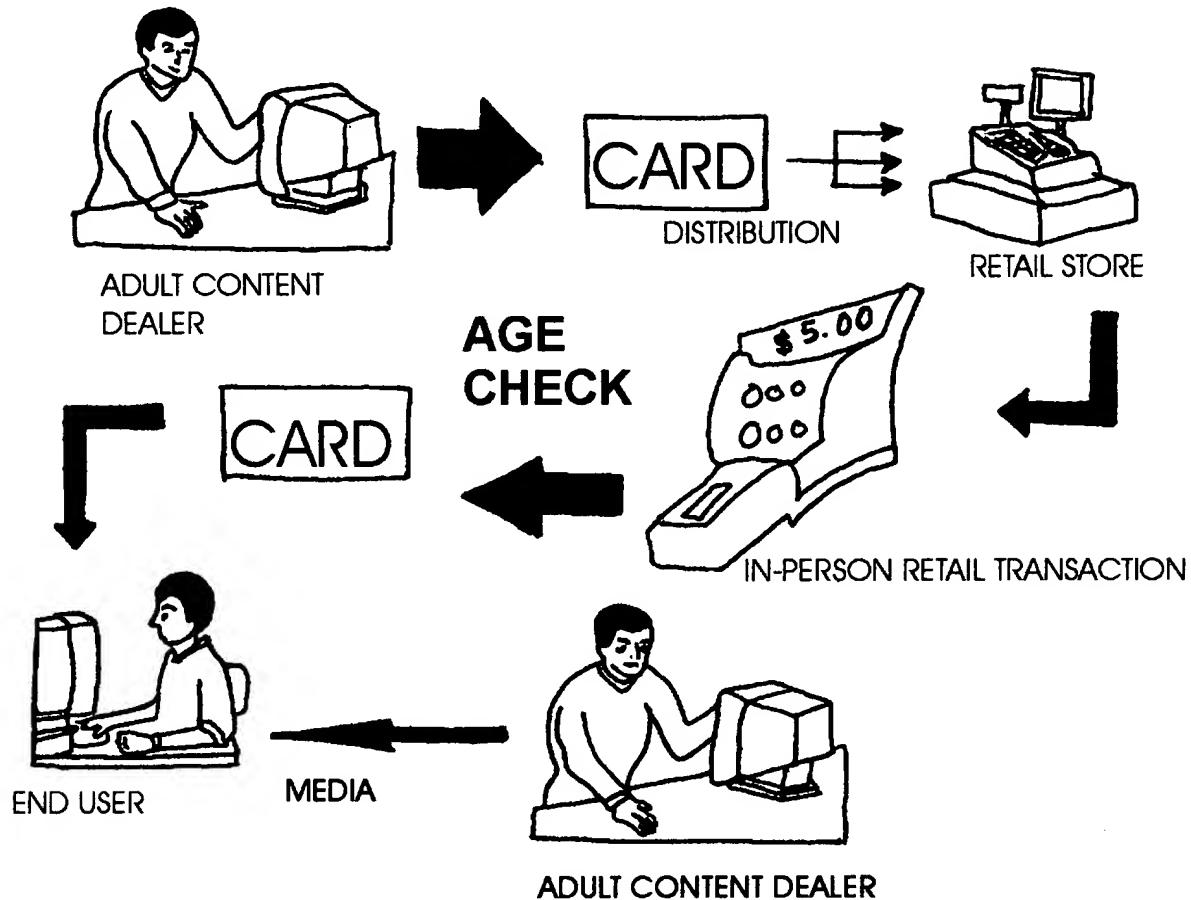


**DRAWING 3 to replace DRAWING 3/9 VENDING MACHINE
DISTRIBUTION**

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DRAWING 4 to replace DRAWING 4/9 AGE VERIFICATION

SYSTEM

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DRAWING 5 to replace DRAWING 5/9 PROGRAMMING SEQUENCE FOR OPTIONAL COOKIE FREE CACHE BACK mini-APPLICATION

Programing flow sheet only.

Use programming language technique or GUI development environment of your choice

USER ACTIVATED

ON ROUTINE

Make directory /windows/temp/cachebak

Change directory to cachebak

Copy netscape/fat.db

Copy directory fat for /windows/Temporary Internet Files

Write to windows registry for Control Panel, Internet Options, Advanced Internet Properties

Change setting to disable cookies and JAVA

END

USER ACTIVATED

OFF ROUTINE

Prompt User "Download Complete"

Compare netscape fat.db, /windows/temp/cachebak/fat.db

Compare directory fat for /windows/Temporary Internet Files, /windows/temp/cachebak/directory fat

Delete files from netscape/cache which are not listed in /windows/temp/cachebak/directory fat

Copy /windows/temp/cachebak/directory fat

Write to windows registry Control Panel, Internet Options, Advanced Internet Properties

Change settings to enable cookies and JAVA

END

RECEIVED

JUN 11 2003

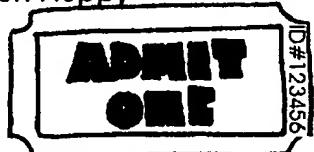
GROUP 3600

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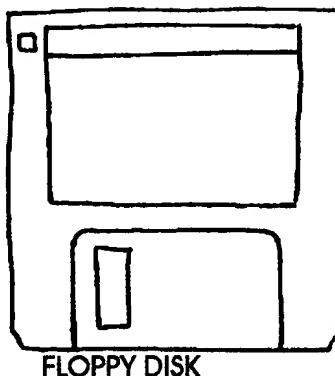
Version with Markings to Show Changes Made



1. Lowlevel Security
mini-Application delivered
on Floppy



Admission Ticket



FLOPPY DISK

2. Scratch off CARD

Better security
mini-Application pre- delivered
over the Internet

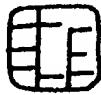
1. LOG ONTO INTERNET THROUGH ISP OR LAN
2. DIRECT YOUR BROWSER TO
<http://www.anycontent.com/URL/media.mp3>
3. Click on Cache Back/Cookie Free if desired



4. Scratch off and Enter your PIN access Code
5. Download your media

3. Smart Card

Best Security
mini-Application
delivered on CARD



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DRAWING 6 to replace DRAWING 6/9 Some possible CARD formats

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Example: ABC and ABC



Base Font (in this example Times New Roman)	Font Aberrations
A	A
B	B
C	C

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DRAWING 7 to replace DRAWING 7/9 Font Aberration Examples

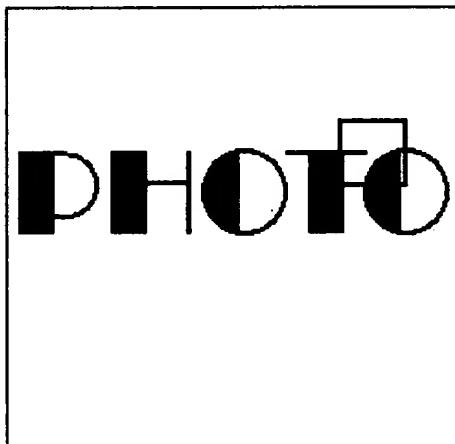
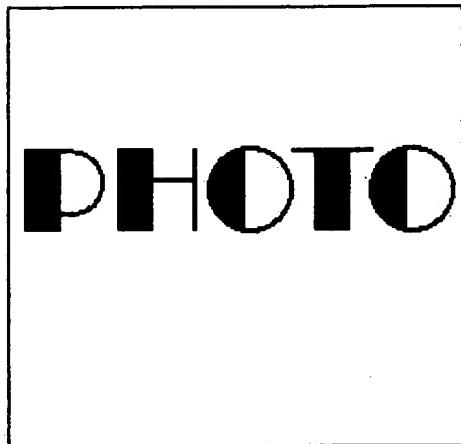


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DRAWING 8 to replace DRAWING 8/9 The hidden pixelization binary fingerprinting predefines which pixels will be modified. The encoded message is later divined using a scanning device capable of detecting the differences

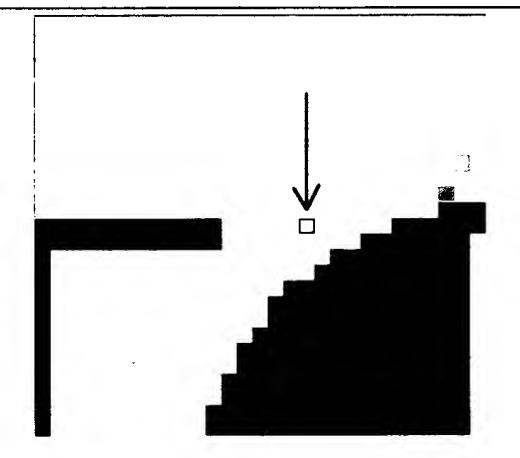
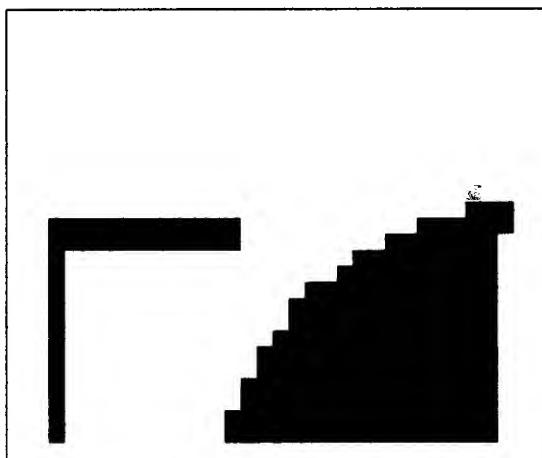
Sample

Area Selection



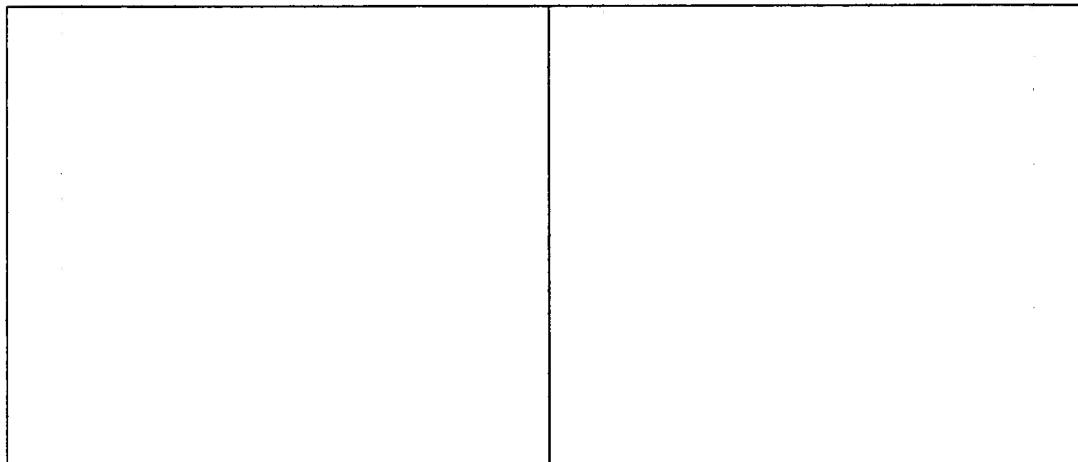
Zoom of Selected Area

Pixel Selection



Normal Pixel

Example: After hidden pixilization



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Courier 10BT	Courier New
A	A
B	B
C	C

**DRAWING 9 to replace DRAWING 9/9 Courier New and Courier 10BT
Similarities**

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Respectfully submitted,



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